

JUSTIFICATION FOR SOLE SOURCE (Simplified Acquisitions <\$150K)
General Algebraic Modeling System (GAMS) Licensing

The General Algebraic Modeling System (GAMS) Licensing is brand name sole source and competition is precluded for reasons indicated below. There are no substitutes available for this material or service.

Restricted to the following source. Provide original manufacturer's name. (If a sole source manufacturer distributes via dealers, ALSO provide dealer information.)

Manufacturer: GAMS Development Corporation

Manufacturer POC & phone nr. sales@gams.com / 202-342-0180

Mfr. address 1217 Potomac Street, NW Washington, DC 20007

Dealer / Rep Resellers are available for this licensing

Dealer / Rep address / phone nr. Resellers are available for this licensing

____ Description of the item or service required, the estimated cost, and required delivery date.

General Algebraic Modeling System (GAMS) Licensing (additional 15 licenses) is estimated at \$ [REDACTED] for the period Date of Award to 12/16/16. Five GAMS Licenses were already purchased via a previous contract (N0018914PQ038) with GAMS Development Corporation for testing the wholesale model. This purchase is for an additional 15 licenses to test the retail site model and allowancing model. GAMS Development Corporation provided the first five licenses so it may be more cost effective to return to the manufacturer for these additional licenses even though resellers are available.

____ Specific characteristics of the material or service that limit the availability to a sole source (unique features, function of the item, etc.). Describe in detail why only this suggested source can furnish the requirements to the exclusion of other sources.

This purchase is for additional General Algebraic Modeling System (GAMS) Licensing. GAMS Development Corporation is the Original Equipment Manufacturer (OEM). GAMS licensing is currently owned; this purchase is for more of the same licenses. GAMS is the Algebraic Modeling Language (AML) used and taught at the Naval Postgraduate School (NPS) to Operation Research students. In addition, GAMS is the AML used by NPS to create the wholesale, retail, and Readiness Based Sparing (RBS) Supply Planning and Optimization (SPO) replacement models. NPS developed a model that only runs on GAMS Development Corporation's proprietary software. There are other optimizers on the market; however, they would be incompatible with the model developed by NPS. GAMS Development Corporation brand licensing is the only brand licensing that will meet the Government's requirement.

X The requested material or service represents the minimum requirements of the government.

CHECK & FILL IN ALL APPLICABLE BLANKS BELOW

 X The material/service must be compatible in all aspects (form, fit and function) with existing systems presently installed/performing. Describe the equipment/function you have now and how the new item/service must coordinate, connect, or interface with the existing system.

As these are more of the same already Government-owned GAMS licenses, it is known that this GAMS Licensing is compatible in all aspects with existing systems presently installed/performing.

 X A patent, copyright or proprietary data limits competition.
The proprietary data is the GAMS optimizer. It is simply no longer advisable - or even feasible - to cling exclusively to commercial off the shelf (COTS) sparing models. With Government off the shelf (GOTS), the Navy purchases technology which is created by the government. Naval Postgraduate School is developing models that will replace and exceed the capabilities of NAVSUP's current COTS product, SPO, which drives NAVSUP Weapon System Support (WSS) wholesale inventory, retail inventory, and ready base spare inventory optimizations.

The GAMS mathematical optimizer is required to run government developed models to replace COTS products that failed to deliver promised results.

 These are “direct replacements” parts/components for existing equipment.

 Other information to support a sole source buy:

No other brand will fulfill the Government's needs.